

PREMIER DOUS GROWTH SEEN IN COMMUNICATION SYSTEMS THROUGHOUT WORLD

RADIO COMPANIES SHOW EXPANSION, DECLARES NAGLE

Commerce Expert Sees Great Increase in Cable Traffic.

Communication systems throughout the world were so generally affected by the war that the traffic handled on every route in operation after the armistice was greatly in excess of any previous record, says P. E. Nagle, communications expert of the Department of Commerce. In the current issue of "Commerce Reports," this increased traffic, he states, was partly due to the suspension of service on such important communication routes as the Indo-European Telegraph Company, the Great Northern Telegraph Company, and the various German and German-Dutch cables, and the officials of American companies were generally of the opinion that with the restoration of service on the routes mentioned there would be a noticeable falling off in the volume of messages handled by American companies. Events, according to Mr. Nagle, did not bear out this view, and at the present date American cable and radio companies are handling more traffic than they ever did except during the war and the two years immediately following the armistice.

"In the field of radio telegraphy the provision of American facilities for communication with foreign countries is dependent to a large extent on the erection of the corresponding stations abroad, and since, with the possible exception of Latin America, radio telegraphy is a government monopoly in foreign countries, or at least a monopoly of a domestic enterprise, the development of the art in foreign countries and the provision of the requisite funds is a preliminary to any progress in the United States."

Permit Erection. "Most of the Latin-American republics permit the erection in their territory of foreign-owned radio stations for intercontinental work and at the present date construction work is in progress at Buenos Aires on a high power transmitting station and its corresponding receiving station, and on similar units at Rio de Janeiro. It is said that the first direct communication by radio from South America to other continents, although at the present time a wireless press service is received at Buenos Aires from France."

The Consolidation and Co-ordination of the system of high power radio stations on the Atlantic coast is going steadily on, and is keeping pace with the development abroad. Regular radio service from the United States is now maintained by commercial companies with the Hawaiian Islands, Japan, Norway, the United Kingdom, Germany and France and by land wire distribution from many of these countries to points beyond. In addition, the United States Naval Communication Service is handling commercial traffic to the Philippine Islands, China, Siberia, Siam, Dutch East Indies, portions of Australia, and to Italy and Belgium. Many of these foreign centers receive radio messages from the navy and distribute to points beyond.

One Way Route. "The Belgian circuit is a one-way route only, as Belgium has not yet a high power station capable of trans-Atlantic communication. With the completion of the new Belgian station near Brussels and the new Italian station at Caltanissetta, the radio traffic will undoubtedly pass into the hands of American commercial radio companies. The same is true of the projected extension of governmental radio facilities in the Far East."

American radio companies also are developing systems of radio communication with Central America and New Orleans as the main center for American reception and transmission. "A new high power station is in course of construction in Poland, another is nearing completion near Christiania, and various others are projected in the smaller European countries. A new high power station has just been completed at St. Asie, in the department of Seine-et-Marne, France, which is designed to communicate chiefly with the United States, replacing the Lafayette station at Bordeaux. With this station, those at Christiania and Warsaw communication will be direct with the United States."

"In the cable field, cables from New York to England, Germany, via the Azores, are planned by two American cable companies. These will restore the routes formerly existing from the United States to Germany, and discontinued as a result of the seizure of the German cables by the allies during the war. These same two companies are each planning a new Pacific cable, one by way of Hawaii and Midway Island to Japan, and the other north by way of Alaska and the Aleutian Islands to Siberia and the Orient."

WORLD BODY SEEKS WAVE BAND RULES An international commission meeting in London this year will try to remove further possible confusion in wave lengths consequent to the erection of many trans-Atlantic broadcasting stations. Wave lengths over 10,000 meters are best adapted for long distance transmission. Transmitting apparatus now designed is practically limited to 20,000 meters at most. There is a comparatively narrow band of wave lengths in which the larger stations may operate. A new station now being erected in Sweden will be of the trans-Atlantic type. In this instance the Radio Corporation of America has charge of the installation.

According to Chief Engineer Alexander of the Radio Corporation, it is preferable that these very high powered stations be government owned so there will be no confusion of transmission as possible. Other European countries, including Poland, have applied for erection of the high power stations.

Canoe Radio Picks Up Broadcasts



Boating and life-saving talks as broadcasted from KDKA regularly are heard on canoe radio-phones sets near Oakmont, Pa. This is a fashionable Pittsburgh suburb on the Allegheny River.

LISTENERS-IN COLUMN.

In this column are published comments relative to local and distant broadcast stations. Prejudice or unfair criticisms are not desired and do not help the status of broadcasting in general. Inefficient construction or operation of receiving sets may account for distortion of music heard in certain instances.

Denies Interference.

To the Radio Editor: A recent tempest in the teapot brewed a few days ago by one of your contributors regarding the "interference of local broadcasting houses" in Washington with the reception of music and other programs from out of town, I wish to offer my mite as an evidence that so far as the interference exists "there ain't no such animal."

From what I can gather from communications you have printed from those who are able to tune out the local stations, I judge that they have steps of amplification or their sets are equipped with plate and grid variometers, so that tuning out is easily accomplished. I have a mere V-T detector set—home made—consisting of an Amrad variometer, a 43-plate condenser, a rheostat with vernier adjustment. My aerial consists of two wires, each 100 feet long, 12 feet above the roof.

Wednesday evening last I listened in on concerts from KDKA and WWJ from 8:30 to 9:15 while NOF was sending its thunderous notes from the Marine Band concert and there was no sign of "interference." Of course my set is not an "expensive" one, but there is some satisfaction in having been able to receive such stations as WEAS, WSY, WGB, KYW, WJZ, WJZ, WBZ and WWJ in addition to KDKA and WWJ, while our local "interfering" concerts have been thrust upon us.

As a former user of a crystal set, I bespeak indulgence for them. The local concerts are good and our opportunity to secure the gratuitous services of excellent artists is better than most of the metropolitan cities with the possible exception of New York and Pittsburgh. The local broadcasters should be commended in their work; their concerts are sent out at considerable expense and they cost us not a single red cent.

If there is objection to "canned music" being sent from Washington why should one put in a V-T set for the sake of hearing it from Newark or Parkersburg, Pa.? I am not alone in being able to tune out local stuff as I have a friend with an aerial, Sr., who is even more successful than myself.

M. A.

Receives From Distance.

To the Radio Editor: I received very clearly on Wednesday night the following stations: KSAS, Denver, Col.; KSB, ship station, Gulf of Mexico, 12:15 p. m.; Eastern Standard Time. I used a Westlake type R. C. set with 50-foot aerial on top of six-story apartment.

J. E. GENSHEIMER.

1749 Euclid street northwest, Apt. 69.

Germany Is Slow In Radio Progress

German manufacturers of radio apparatus and equipment are not in a position to make extensive deliveries of their product, according to Vice Consul Nathaniel B. Davis, Berlin, in a report to the Department of Commerce. This is due to the fact that the demand has not been sufficiently great to warrant the manufacture of radio instruments in large quantities.

Amateur radio work is not popular in Germany and stations are not numerous. Radio telephony in particular is almost an unknown science except to engineers, professional operators and experimenters. The principal reasons given for the lack of interest in radio on the part of the general public are that amateur stations are a luxury beyond the means of the average German, under present economic conditions, and official restrictions on their use.

All radio communication in Germany is under the control of the federal postoffice department, which operates the commercial stations. Private installations must ordinarily be made by the department, but in exceptional cases private companies or individuals may be authorized to erect their own plants, but they must first obtain a license from the postoffice department. The fee for such a license varies according to the size of the plant, with a maximum of 2,000 marks per annum. At present only one station in Berlin is licensed to broadcast. This station broadcasts market and exchange quotations. Subscribers to their service are permitted to install receiving stations upon payment of the license fee and the monthly subscription rates, which vary at present from 1,000 marks to 7,500 marks according to the class of subscription. Subscribers may rent receiving sets from the postoffice department for 2,500 marks per month if they do not desire to build their own.

Broadcasting Programs, Dates and Wavelengths for This Week.

LOCAL STATIONS DAILY EXCEPT SUNDAY. Eastern Standard Time.

NAA-NAVAL RADIO STATION. 5,950 Meters, C. W. (A.R.).

8:45 to 9 a. m.—Live stock receipts, markets.

10 a. m.—Weather forecasts for New England, Middle Atlantic and Southern States.

10:30 a. m.—Meteorological report.

11:15 to 11:30 a. m.—Hogs, Chicago and St. Louis.

11:30 to 11:40 a. m.—Fruit and vegetable shipments.

1:40 to 2:25 p. m.—Fruits and vegetables.

2:25 to 2:55 p. m.—Crops and special market news.

3:45 to 4 p. m.—Closing, live stock.

4:00 to 4:15 p. m.—Hay and feed markets. Monday, Wednesday, Friday.

5 p. m.—Weather.

5:30 to 6 p. m.—Ma. ketgram.

On Saturdays no schedule after 2:25 p. m.

2,650 Meters, Spark. (Sunday Also.)

12 m. and 10 p. m.—Time signal.

10:01 p. m.—Weather reports, ship orders, naval press news.

WWX-POSTOFFICE DEPARTMENT STATION. All Radiophone 1,160 Meters.

10 a. m.—Weather report.

10:30 a. m.—Fruits and Vegetables. Local wholesale

12:30 and 2:15 p. m.—Livestock, Chicago and St. Louis

3 p. m.—Crop and special market report. Press.

3:30 p. m.—General fruits and vegetables. Press.

5 p. m.—Dairy products, New York and Chicago.

5:30 p. m.—Grain report. 7:30 p. m.—Livestock. 8 p. m.—Fruits and vegetables. Press. 9:30 p. m.—Weather report.

On Saturdays, no schedule following the 12:30 p. m. livestock report.

350 METERS UNLESS

WMU—Doubleday-Hill Electric Company.

4:30-5:30 p. m.—Baseball scores from The Herald.

WJH—White and Boyer.

4 to 4:30 and 5:30 to 6 p. m.—Music and features.

WEAS—The Hecht Co.

3 to 4 p. m.—Music. Retail merchants reports.

MONDAY—WPM—Thomas J. Williams, Inc.

8 p. m.—Music.

TUESDAY—WJH—White and Boyer.

7:45 p. m.—Music.

WEDNESDAY AND FRIDAY. NOF.

8:30 p. m.—Music, 412 meters.

WATCH HERALD DAILY SCHEDULE FOR PROGRAM.

Voice Inflection Best Radio Asset

Full Wording Needed to Convey Messages, Says Writer.

NEW YORK, Aug. 17.—Historians delight in dwelling upon the progress made by mankind during the past half century. To explain the radical changes in our social customs, our new standards of living and our improved business conditions, there are theories galore. Few of them, however, are as sound or logical as that offered by Edward B. Craft, chief engineer of the Western Electric Company. Mr. Craft looks upon the telephone as one of the greatest factors in aiding the much-discussed forward movement of the past fifty years.

"But for the perfection of the invention of that far-seeing genius, Dr. Alexander Graham Bell," Mr. Craft says, "the world might yet be in that stage where everything out of sight is practically out of mind. Within the memory of most men the telephone has grown from an interesting novelty to become the important servant of each of us in the vocal expression of ideas to individuals or audiences located at distances over which earlier generations scarcely dreamed speech ever could be transmitted. And it is to this mean of making all the universe neighbors that civilization owes much of its stimulus."

"We are all thoroughly familiar with the fact that we are living in an economic world which is based on credit and mutual trust. In many instances business dealings are consummated as the result of a word spoken into the long distance telephone system which carries from one city to another, from one individual to another, a contract to buy or sell. Such flexibility and speed in business transactions is made possible by the fact that the telephone serves to transmit not only the speech content and meaning of the speaker but also all those peculiarities of voice and intonation which are characteristic of the individual speaker and which would be observed by an auditor in a direct conversation."

METHODIST CHURCH VOTES RADIO FUNDS

A report states that the Wesley Memorial Church of Atlanta, Ga., may devote \$1,000,000 of the Methodist Church's educational fund for radio receiving sets to be installed in churches in the South.

In these small churches, where a regular pastor could not be supported, they will serve well as an adjunct to the itinerant preacher.

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The public has made radio what it is today and the public will dictate what radio will become tomorrow.

In the meantime, the Radio Corporation of America is doing what it can to protect the public—

By systematically developing Radiolas, which are so simple, so easily manipulated, that no technical knowledge is required to make the most of them.

By research that not merely improves apparatus, but will stabilize the quality of broadcast transmission.

By appointing only responsible distributors who have the same sense of obligation to the public.

ARMSTRONG PLAN AIDS RADIO IN CITY

What is super-regeneration? It is a remarkably clever combination of electrical phenomena, says Paul F. Goodley, which will "relentlessly grip the thoughts and imaginations of radio folks everywhere. There is no doubt about that. Since Armstrong's disclosure of the new method of radio reception, literally tens of thousands of folks are wrestling with the super-regenerative circuit in an effort to master it and learn its limitations. But what great steps forward do not have?"

To the city dweller—the man who finds himself hedged in on every side by steel and stone, or to the man who is harassed by someone who is lightning-shy, super-regeneration will prove a boon. To the radio fan with experimental leanings it will come as a heaven-sent gift, for the combinations of the circuits it is possible to employ are extremely numerous, and in them lies endless fascination.

Sugar in Montreal.

MONTREAL, Quebec, Aug. 19.A total of 16,581 tons of sugar has arrived in the port of Montreal since the harbor was opened in the spring.

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A complete Crystal Receiver which can also be adapted to Vacuum Tube Operation.

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We also furnish estimates on transmitting and broadcasting station equipment. We will gladly demonstrate the Westinghouse transmitter. Price, \$305.

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